

What Is Claimed Is:

1. A magnetic tape tracking control apparatus for controlling tracking of tracks on a magnetic tape by a rotary head, comprising:

a first generating means for encoding an inputted video signal to generate said video data;

a second generating means for generating search video data on the basis of said video data generated by said first generating means; and

a recording means for recording, on said tracks, said video data generated by said first generating means, said search video data generated by second generating means and positional information associated with a recording position of said search video data.

2. The magnetic tape tracking control apparatus according to claim 1, wherein said recording means records said video data in a unit of a sync block having a predetermined length and said positional information to a sync block which is different from a position of said search video data.

3. The magnetic tape tracking control apparatus according to claim 2, wherein said recording means records said positional information to a subcode.

4. The magnetic tape tracking control apparatus

according to claim 1, further comprising:

a first generating means for generating a first number corresponding to a position of said tracks;

a second generating means for generating a second number corresponding to a position of one of said tracks, recorded with search video data; and

a comparing means for comparing said first number with said second number to control tracking on the basis of a result of the comparison.

5. The magnetic tape tracking control apparatus according to claim 4, wherein said second generating means comprising:

a counting means for counting clocks;

a detecting means for detecting a track recorded with said search video data; and

a first setting means for setting a count value of said counting means on the basis of a detection result by said detecting means.

6. The magnetic tape tracking control apparatus according to claim 5, said rotary head comprising a first head capable of reproducing said search video data and a second head incapable of reproduction;

said second generating means further comprising a second setting means for setting a count value of said

counting means on the basis of information reproduced from said magnetic tape through said second head.

7. The magnetic tape tracking control apparatus according to claim 5, wherein said second generating means further comprising a second setting means for setting, on the basis of a count value of said counting means and reproduced information from said track recorded with said search video data, the count value of said counting means.

8. The magnetic tape tracking control apparatus according to claim 7, wherein said reproduced information from said track recorded with said search video data is reproduced information which is obtained when the count value of said counting means is a value which corresponds to said track recorded with said search video data.

9. The magnetic tape tracking control apparatus according to claim 7, wherein the reproduced information from said track recorded with said search video data is a number recorded on said track and

said second setting means sets the count value of said counting means on the basis of a difference between the count value of said counting means and said number.

10. A magnetic tape tracking control method for a magnetic tape tracking control apparatus for controlling

tracking of tracks on a magnetic tape by a rotary head,  
comprising:

a first generating step for encoding an inputted  
video signal to generate said video data;

a second generating step for generating search  
video data on the basis of said video data generated in  
said first generating step; and

a recording step for recording, on said tracks,  
said video data generated in said first generating step,  
said search video data generated in second generating  
step and positional information associated with a  
recording position of said search video data.

11. A recording medium storing a computer-readable  
program for a magnetic tape tracking control apparatus  
for controlling tracking of tracks on a magnetic tape by  
a rotary head, comprising:

a first generating step for encoding an inputted  
video signal to generate said video data;

a second generating step for generating search  
video data on the basis of said video data generated in  
said first generating step; and

a recording step for recording, on said tracks,  
said video data generated in said first generating step,  
said search video data generated in second generating

step and positional information associated with a recording position of said search video data.

12. A program for causing a computer for controlling tracking of tracks on a magnetic tape by a rotary head to execute:

a first generating step for encoding an inputted video signal to generate said video data;

a second generating step for generating search video data on the basis of said video data generated in said first generating step; and

a recording step for recording, on said tracks, said video data generated in said first generating step, said search video data generated in second generating step and positional information associated with a recording position of said search video data.

13. A magnetic tape tracking control apparatus for controlling tracking of tracks on a magnetic tape by a rotary head, comprising:

a first generating means for generating a first number corresponding to a position of said tracks, recorded with search video data;

a second generating means for generating a second number corresponding to a position of one of said tracks; and

a comparing means for comparing said first number with said second number to control tracking on the basis of a result of the comparison.

14. The magnetic tape tracking control apparatus according to claim 13, wherein said second generating means comprising:

a count means for counting clocks;

a detecting means for detecting a track recorded with said search video data; and

a first setting means for setting a count value of said counting means on the basis of a detection result by said detecting means.

15. The magnetic tape tracking control apparatus according to claim 14, wherein said rotary head comprising a first head capable of reproducing said search video data and a second head incapable of reproduction;

said second generating means further comprising a second setting means for setting a count value of said counting means on the basis of information reproduced from said magnetic tape by said second head.

16. The magnetic tape tracking control apparatus according to claim 14, wherein said second generating means further comprising a second setting means for

setting, on the basis of the count value of said counting means and reproduced information from said track recorded with said search video data, the count value of said counting means.

17. The magnetic tape tracking control apparatus according to claim 16, wherein the reproduced information from said track recorded with said search video data is reproduced information which is obtained when count value of said counting means is a value which corresponds to said track recorded with said search video data.

18. The magnetic tape tracking control apparatus according to claim 16, wherein the reproduced information from said track recorded with said search video data is a number recorded in said track and

said second setting means sets the count value of said counting means on the basis of a difference between the count value of said counting means and said number.

19. A magnetic tape tracking control method for a magnetic tape tracking control apparatus for controlling tracking of tracks on a magnetic tape by a rotary head, comprising:

a first generating step for generating a first number corresponding to a position of said tracks, recorded with search video data;

a second generating step for generating a second number corresponding to a position of one of said tracks; and

a comparing step for comparing said first number with said second number to control tracking on the basis of a result of the comparison.

20. A recording medium storing a computer-readable program for a magnetic tape tracking control apparatus for controlling tracking of tracks on a magnetic tape by a rotary head, comprising:

a first generating step for generating a first number corresponding to a position of said tracks;

a second generating step for generating a second number corresponding to a position of one of said tracks, recorded with search video data; and

a comparing step for comparing said first number with said second number to control tracking on the basis of a result of the comparison.

21. A program for causing a computer for controlling tracking of tracks on a magnetic tape by a rotary head to execute:

a first generating step for generating a first number corresponding to a position of said tracks;

a second generating step for generating a second



number corresponding to a position of one of said tracks,  
recorded with search video data; and

a comparing step for comparing said first number  
with said second number to control tracking on the basis  
of a result of the comparison.

22. A magnetic tape format in which video data and  
search video data are recorded in tracks along with  
positional information associated with a recording  
position of said search video data.

23. The magnetic tape format according to claim 22,  
wherein said video data is recorded in a sync block unit  
having a predetermined length and said positional  
information is recorded in a sync block which is  
different from a position of said search video data.